

Temperature Measurement

B57560

Glass-Encapsulated Sensors

G 560

Applications

- Automotive electronics
- Industrial electronics
- Home appliances

Features

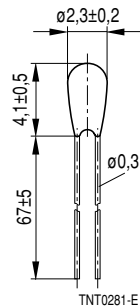
- Glass-encapsulated, heat-resistive and highly stable
- For temperature measurement up to 300 °C
- Fast response
- Leads: dumet wires (copper-clad FeNi)

Options

Leads: nickel-plated wires

Delivery mode

Bulk



Dimensions
in mm

| | | | |
|--|------------------|-----------------------------|------|
| Climatic category (IEC 60068-1) | | 55/300/56 | |
| Max. power at 25 °C | P_{25} | 50 | mW |
| Resistance tolerance | $\Delta R_N/R_N$ | $\pm 1\%, \pm 3\%, \pm 5\%$ | |
| Rated temperature | T_N | 25 | °C |
| Dissipation factor (in air) | δ_{th} | approx. 1,3 | mW/K |
| Thermal cooling time constant (in air) | τ_c | approx. 15 | s |
| Heat capacity | C_{th} | approx. 20 | mJ/K |

| R_{25} | No. of R/T characteristic | $B_{25/85}$ | $B_{0/100}$ | $B_{25/100}$ | Ordering code |
|----------|--------------------------------|-------------|-------------------|--------------|---------------|
| Ω | | K | K | K | |
| 2 k | 8401 | 3420 | $3390 \pm 1\%$ | 3436 | B57560G0202+ |
| 5 k | 8402 | 3480 | $3450 \pm 1\%$ | 3497 | B57560G0502+ |
| 10 k | 8407 | 3480 | $3450 \pm 1\%$ | 3497 | B57560G0103+ |
| 20 k | 8415 | 3992 | $3970 \pm 1\%$ | 4006 | B57560G0203+ |
| 30 k | 8415 | 3992 | $3970 \pm 1\%$ | 4006 | B57560G0303+ |
| 50 k | 8403 | 3992 | $3970 \pm 1\%$ | 4006 | B57560G0503+ |
| 100 k | 8404 | 4066 | $4036 \pm 1\%$ | 4085 | B57560G0104+ |
| 230 k | 8405 | 4240 | $4537 \pm 1\%^1)$ | 4264 | B57560G0234+ |
| 1400 k | 8406 | 4557 | $5133 \pm 2\%^2)$ | 4581 | B57560G0145+ |

+: F000 for $\Delta R_N/R_N = \pm 1\%$; F002 for $\Delta R_N/R_N = \pm 1\%$ for nickel-plated wires
H000 for $\Delta R_N/R_N = \pm 3\%$; H002 for $\Delta R_N/R_N = \pm 3\%$ for nickel-plated wires
J000 for $\Delta R_N/R_N = \pm 5\%$; J002 for $\Delta R_N/R_N = \pm 5\%$ for nickel-plated wires

1) $B_{100/200}$

2) $B_{200/300}$

Reliability data

| Test | Standard | Test conditions | $\Delta R_{25}/R_{25}$ (typical) | Remarks |
|------------------------------------|----------------|---|-------------------------------------|-------------------|
| Storage in dry heat | IEC 60068-2-2 | Storage at upper category temperature T : 300 °C t : 1000 h | < 3 % | No visible damage |
| Storage in damp heat, steady state | IEC 60068-2-3 | Temperature of air: 85 °C Relative humidity of air: 85 % Duration: 56 days | < 2 % | No visible damage |
| Rapid temperature cycling | IEC 60068-2-14 | Lower test temperature: – 55 °C Upper test temperature: 200 °C Number of cycles: 1000 | < 2 % | No visible damage |

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